

THE INSTITUTE OF PAPER CHEMISTRY

Appleton, Wisconsin

SUMMARY OF DATA OBTAINED IN BASE-LINE STUDY ON
LINERBOARD DURING JUNE AND JULY, 1965

Project 1108-13

Report

to

TECHNICAL DIVISION
FOURDRINIER KRAFT BOARD INSTITUTE, INC.

September 22, 1965

THE INSTITUTE OF PAPER CHEMISTRY

Appleton, Wisconsin

SUMMARY OF DATA OBTAINED IN BASE-LINE STUDY ON LINERBOARD DURING JUNE AND JULY, 1965

PART I. GENERAL

	Current Report	Previous Report
Period	June-July, 1965	April-May, 1965
No. of mills	18	19
No. of samples	125	124
Nonparticipants:	<ol style="list-style-type: none"> 1. International (Panama City) 2. Olin Mathieson 3. St. Regis (Pensacola) 4. Western Kraft 	<ol style="list-style-type: none"> 1. Olin Mathieson 2. St. Regis (Pensacola) 3. Western Kraft 4. International (Panama City)

PART II. QUALITY DATA

A. Summary of Data	Report	Current Mill Data			12-Month
		Max.	Min.	Av.	Cum. FKI Av.
Basis Weight, lb./1000 sq. ft.	Cur.	42.9	41.7	42.4	42.6
	Prev.	43.0	41.9	42.4	42.6
Caliper, pt.	Cur.	13.4	11.8	12.7	12.6
	Prev.	13.5	11.2	12.7	12.6
Bursting Strength, p.s.i.g.	Cur.	118	103	112	111
	Prev.	123	106	110	111
M.D. Elmendorf Tear, g./sheet	Cur.	382	265	331	334
	Prev.	379	262	330	335
C.D. Elmendorf Tear, g./sheet	Cur.	413	320	375	380
	Prev.	420	327	377	381

B. Trends in Quality Data in Current Report (Reference being data from previous report.)

Basis weight:	No change
Caliper:	No change
Bursting strength:	Increased from 110 to 112
M.D. Elmendorf tear:	Increased from 330 to 331
C.D. Elmendorf tear:	Decreased from 377 to 375

All tests
essentially
unchanged.

PART III. CALIBRATION DATA

A. Summary of Data

B. Trends in Calibration Data

Range, %	Current No. of Mills	Report %	Previous Report		6-Mo. Av., %
			No. of Mills	%	

Basis Weight

+	0.5	8	44.4	10	52.6	72.5
+	1	15	83.3	18	94.7	96.6
+	2	18	100.0	19	100.0	100.0

Agreement is good but not as good as that for previous report or for previous six-month period.

Caliper

+	0.5	2	11.1	1	5.3	8.4
+	1	5	27.8	6	31.6	40.5
+	2	13	72.2	16	84.2	83.1
+	3	16	88.9	16	84.2	89.7
+	4	18	100.0	18	94.7	98.2
+	5			19	100.0	100.0

Agreement is good and compares favorably with previous data at all levels except the 1 and 2% levels.

Bursting Strength

+	0.5	3	16.7	7	36.8	23.9
+	1	6	33.3	10	52.6	42.5
+	2	10	55.6	14	73.7	64.6
+	3	11	61.1	19	100.0	85.0
+	4	15	83.3			95.0
+	5	15	83.3			95.0
+	7.5	18	100.0			100.0

Agreement is good but not as good as agreement for previous report or for previous six-month period.

M.D. Elmendorf Tear

+	0.5	0	0.0	0	0.0	0.0
+	1	1	6.2	0	0.0	3.7
+	2	4	25.0	3	17.6	18.8
+	3	4	25.0	4	23.5	30.1
+	4	7	43.8	6	35.3	39.5
+	5	8	50.0	6	35.3	45.1
+	7.5	10	62.5	11	64.7	60.5
+	10	14	87.5	14	82.4	79.3
+	17	16	100.0	17	100.0	100.0

Agreement is good and compares favorably with previous data.

C.D. Elmendorf Tear

+	0.5	4	25.0	1	5.9	9.4
+	1	5	31.2	2	11.8	20.6
+	2	7	43.8	4	23.5	37.5
+	3	9	56.2	8	47.1	50.9
+	4	11	68.8	11	64.7	64.2
+	5	12	75.0	11	64.7	69.7
+	7.5	12	75.0	14	82.4	83.0
+	10	14	87.5	17	100.0	96.3
+	17	16	100.0			100.0

Agreement for the current period is good and compares favorably with that for the previous period and for the previous six-month period.